RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/553,656_

Source: _Pu/lp_

Date Processed by STIC: _11/1/05_

ENTERED

PCT

RAW SEQUENCE LISTING   DATE: 11/01/2005
PATENT APPLICATION: US/10/553,656   TIME: 10:47:15

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11012005\J553656.raw**

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   3 <110> APPLICANT: CropDesign N.V.
   5 <120> TITLE OF INVENTION: Plants having modified growth characteristics and method for
   6       making the same
   8 <130> FILE REFERENCE: CD-089-PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/553,656
C--> 10 <141> CURRENT FILING DATE: 2005-10-14
  10 <150> PRIOR APPLICATION NUMBER: EP 03076086.2
  11 <151> PRIOR FILING DATE: 2003-04-14
  13 <160> NUMBER OF SEQ ID NOS: 7
  15 <170> SOFTWARE: PatentIn version 3.2
  17 <210> SEQ ID NO: 1
  18 <211> LENGTH: 336
  19 <212> TYPE: DNA
  20 <213> ORGANISM: Arabidopsis thaliana
  22 <220> FEATURE:
  23 <221> NAME/KEY: misc_feature
  24 <223> OTHER INFORMATION: MT2a DNA sequence
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  28 ggaaactgcg gatgtggatc tggctgcaag tgcggcaacg gttgtggagg ttgcaaaatg     120
  29 taccctgact tgggattctc cggcgagaca accacaactg agacttttgt cttgggcgtt     180
  30 gcaccggcga tgaagaatca gtacgaggct tcaggggaga gtaacaacgc tgagaacgat     240
  31 gcttgcaagt gtggatctga ctgcaagtgt gatccttgca cctgcaagtg aagaagcctt     300
  32 tttaaataag cagagataat cgagtctctt taatta                              336
  34 <210> SEQ ID NO: 2
  35 <211> LENGTH: 81
  36 <212> TYPE: PRT
  37 <213> ORGANISM: Arabidopsis thaliana
  39 <220> FEATURE:
  40 <221> NAME/KEY: MISC_FEATURE
  41 <223> OTHER INFORMATION: MT2a protein sequence
  43 <400> SEQUENCE: 2
  44 Met Ser Cys Cys Gly Gly Asn Cys Gly Cys Gly Ser Gly Cys Lys Cys
  45 1               5                   10                  15
  47 Gly Asn Gly Cys Gly Gly Cys Lys Met Tyr Pro Asp Leu Gly Phe Ser
  48               20                  25                  30
  50 Gly Glu Thr Thr Thr Thr Glu Thr Phe Val Leu Gly Val Ala Pro Ala
  51           35                  40                  45
  53 Met Lys Asn Gln Tyr Glu Ala Ser Gly Glu Ser Asn Asn Ala Glu Asn
  54       50                  55                  60
  56 Asp Ala Cys Lys Cys Gly Ser Asp Cys Lys Cys Asp Pro Cys Thr Cys
  57 65                  70                  75                  80
  59 Lys
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 63 <211> LENGTH: 545
 64 <212> TYPE: DNA
 65 <213> ORGANISM: Arabidopsis thaliana
 67 <220> FEATURE:
 68 <221> NAME/KEY: misc_feature
 69 <223> OTHER INFORMATION: MT1 DNA sequence
 71 <220> FEATURE:
 72 <221> NAME/KEY: misc_feature
 73 <222> LOCATION: (331)..(331)
 74 <223> OTHER INFORMATION: n is a, c, g, or t
 76 <400> SEQUENCE: 3
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 78 actgcggatg tggatctggc tgcaagtgcg gcaacggttg tggaggttgc aaaatgtacc     120
 79 ctgacttggg attctccggc gagacaacca caactgagac ttttgtcttg ggcgttgcac     180
 80 cggcgatgaa gaatcagtac gaggcttcag gggagagtaa caacgctgag agcgatgctt     240
 81 gcaagtgtgg atctgactgc aagtgtgatc cttgcacctg caagtgaaga agcctttta      300
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W--> 82 aataagcaga gataatcgag tctctttaat ntaattaagt tattcaataa gtaaaccata   360
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 83 tataggatgg tgtttttagg tttggtttat gtgtaataat ggcttcagct tatcttttag     420
 84 ccgatcattg tcttttgtgt ttgttttgat catatctttt agatgtctag caaatctgcc     480
 85 atgtgatgag tttgtacttc cagtggaatg ataataatat tatagtttta aatcaaaaaa     540
 86 aaaaa                                                                 545
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 89 <211> LENGTH: 81
 90 <212> TYPE: PRT
 91 <213> ORGANISM: Arabidopsis thaliana
 93 <220> FEATURE:
 94 <221> NAME/KEY: MISC_FEATURE
 95 <223> OTHER INFORMATION: MT1 protein sequence
 97 <400> SEQUENCE: 4
 98 Met Ser Cys Cys Gly Gly Asn Cys Gly Cys Gly Ser Gly Cys Lys Cys
 99 1               5                   10                  15
101 Gly Asn Gly Cys Gly Gly Cys Lys Met Tyr Pro Asp Leu Gly Phe Ser
102             20                  25                  30
104 Gly Glu Thr Thr Thr Thr Glu Thr Phe Val Leu Gly Val Ala Pro Ala
105         35                  40                  45
107 Met Lys Asn Gln Tyr Glu Ala Ser Gly Glu Ser Asn Asn Ala Glu Ser
108     50                  55                  60
110 Asp Ala Cys Lys Cys Gly Ser Asp Cys Lys Cys Asp Pro Cys Thr Cys
111 65                  70                  75                  80
113 Lys
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117 <211> LENGTH: 53
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: primer prm03240
124 <400> SEQUENCE: 5
125 ggggacaagt ttgtacaaaa aagcaggctt cacaatgtct tgctgtggag gaa            53
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128 <211> LENGTH: 47
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: primer prm03241
135 <400> SEQUENCE: 6
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140 <211> LENGTH: 3032
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: expression cassette for MT2a
147 <400> SEQUENCE: 7
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149 aaatataaaa tgagacctta tatatgtagc gctgataact agaactatgc aagaaaaact    120
150 catccaccta ctttagtggc aatcgggcta aataaaaaag agtcgctaca ctagtttcgt    180
151 tttccttagt aattaagtgg gaaaatgaaa tcattattgc ttagaatata cgttcacatc    240
152 tctgtcatga agttaaatta ttcgaggtag ccataattgt catcaaactc ttcttgaata    300
153 aaaaaatctt tctagctgaa ctcaatgggt aaagagagag attttttttta aaaaaataga    360
154 atgaagatat tctgaacgta ttggcaaaga tttaaacata taattatata attttatagt    420
155 ttgtgcattc gtcatatcgc acatcattaa ggacatgtct tactccatcc caattttttat    480
156 ttagtaatta aagacaattg acttattttt attatttatc tttttttcgat tagatgcaag    540
157 gtacttacgc acacactttg tgctcatgtg catgtgtgag tgcacctcct caatacacgt    600
158 tcaactagca acacatctct aatatcactc gcctatttaa tacatttagg tagcaatatc    660
159 tgaattcaag cactccacca tcaccagacc acttttaata atatctaaaa tacaaaaaat    720
160 aattttacag aatagcatga aaagtatgaa acgaactatt taggtttttc acatacaaaa    780
161 aaaaaaagaa ttttgctcgt gcgcgagcgc caatctccca tattgggcac acaggcaaca    840
162 acagagtggc tgcccacaga acaacccaca aaaaacgatg atctaacgga ggacagcaag    900
163 tccgcaacaa ccttttaaca gcaggctttg cggccaggag agaggaggag aggcaaagaa    960
164 aaccaagcat cctcctcctc ccatctataa attcctcccc ccttttcccc tctctatata   1020
165 ggaggcatcc aagccaagaa gagggagagc accaaggaca cgcgactagc agaagccgag   1080
166 cgaccgcctt cttcgatcca tatcttccgg tcgagttctt ggtcgatctc ttccctcctc   1140
167 cacctcctcc tcacagggta tgtgcccttc ggttgttctt ggatttattg ttctaggttg   1200
168 tgtagtacgg gcgttgatgt taggaaaggg gatctgtatc tgtgatgatt cctgttcttg   1260
169 gatttgggat agaggggttc ttgatgttgc atgttatcgg ttcggtttga ttagtagtat   1320
170 ggttttcaat cgtctggaga gctctatgga aatgaaatgg tttagggtac ggaatcttgc   1380
171 gattttgtga gtacctttg tttgaggtaa aatcagagca ccggtgattt tgcttggtgt   1440
172 aataaaagta cggttgtttg gtcctcgatt ctggtagtga tgcttctcga tttgacgaag   1500
173 ctatcctttg tttattccct attgaacaaa aataatccaa ctttgaagac ggtcccgttg   1560
174 atgagattga atgattgatt cttaagcctg tccaaaattt cgcagctggc ttgtttagat   1620
175 acagtagtcc ccatcacgaa attcatggaa acagttataa tcctcaggaa caggggattc   1680
176 cctgttcttc cgatttgctt tagtcccaga attttttttc ccaaatatct taaaaagtca   1740
177 ctttctggtt cagttcaatg aattgattgc tacaaataat gcttttatag cgttatccta   1800
178 gctgtagttc agttaatagg taatacccct atagtttagt caggagaaga acttatccga   1860
179 tttctgatct ccattttttaa ttatatgaaa tgaactgtag cataagcagt attcatttgg   1920
180 attattttt ttattagctc tcaccccttc attattctga gctgaaagtc tggcatgaac   1980
181 tgtcctcaat tttgtttttca aattcacatc gattatctat gcattatcct cttgtatcta   2040
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182 cctgtagaag tttcttttttg gttattcctt gactgcttga ttacagaaag aaatttatga   2100
183 agctgtaatc gggatagtta tactgcttgt tcttatgatt catttccttt gtgcagttct   2160
184 tggtgtagct tgccactttc accagcaaag ttcatttaaa tcaactaggg atatcacaag   2220
185 tttgtacaaa aaagcaggct tcacaatgtc ttgctgtgga ggaaactgcg gatgtggatc   2280
186 tggctgcaag tgcggcaacg gttgtggagg ttgcaaaatg taccctgact tgggattctc   2340
187 cggcgagaca accacaactg agacttttgt cttgggcgtt gcaccggcga tgaagaatca   2400
188 gtacgaggct tcaggggaga gtaacaacgc tgagaacgat gcttgcaagt gtggatctga   2460
189 ctgcaagtgt gatccttgca cctgcaagtg aaacccagct ttcttgtaca aagtggtgat   2520
190 atcacaagcc cggcggtct tctagggata acagggtaat tatatccctc tagatcacaa   2580
191 gcccgggcgg tcttctacga tgattgagta ataatgtgtc acgcatcacc atgggtggca   2640
192 gtgtcagtgt gagcaatgac ctgaatgaac aattgaaatg aaaagaaaaa aagtactcca   2700
193 tctgttccaa attaaaattc attttaacct tttaataggt ttatacaata attgatatat   2760
194 gttttctgta tatgtctaat ttgttatcat ccgggcggtc ttctagggat aacagggtaa   2820
195 ttatatccct ctagacaaca cacaacaaat aagagaaaaa acaaataata ttaatttgag   2880
196 aatgaacaaa aggaccatat cattcattaa ctcttctcca tccatttcca tttcacagtt   2940
197 cgatagcgaa aaccgaataa aaaacacagt aaattacaag cacaacaaat ggtacaagaa   3000
198 aaacagtttt cccaatgcca taatactcga ac                                   3032
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/01/2005
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 331

VERIFICATION SUMMARY   DATE: 11/01/2005
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Input Set : **A:\Sequence Listing.txt**
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300